



FIG. 1A

Original nickel tool

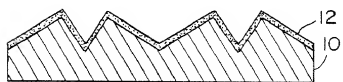


FIG. 1B

Coat tool with layer of photoresist

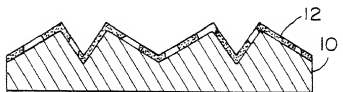


FIG. 1C

Random exposure of photoresist to a speckle pattern



FIG. 1D

Development of resist

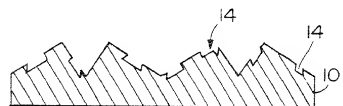


FIG. 1E

Reactive ion-etching to produce modified mold body

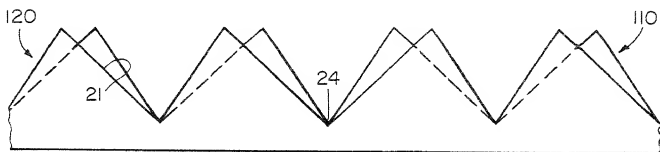


FIG. 3

0000199.070991

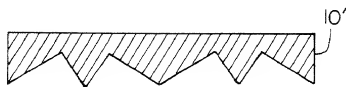


FIG. 2A  
Cast of original tool

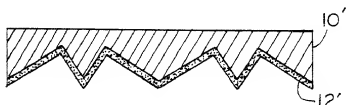


FIG. 2B  
Coat cast with layer of photoresist

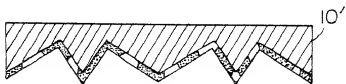


FIG. 2C  
Random exposure of photoresist  
to a speckle pattern

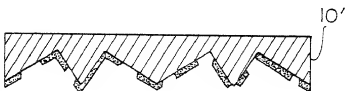


FIG. 2D  
Development of resist

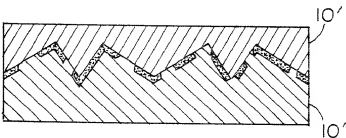


FIG. 2E  
Electroform with nickel to  
create a new indenting tool



FIG. 2F  
Removing the cast to reveal  
the new nickel indenting tool

106020.66110660

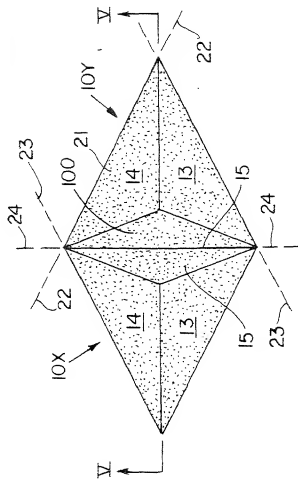


FIG. 4

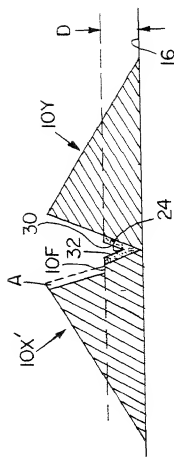


FIG. 6

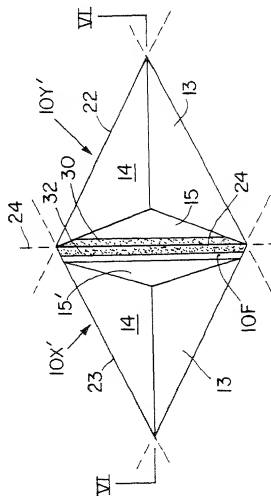


FIG. 7

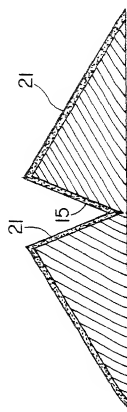


FIG. 5

100020-66170660

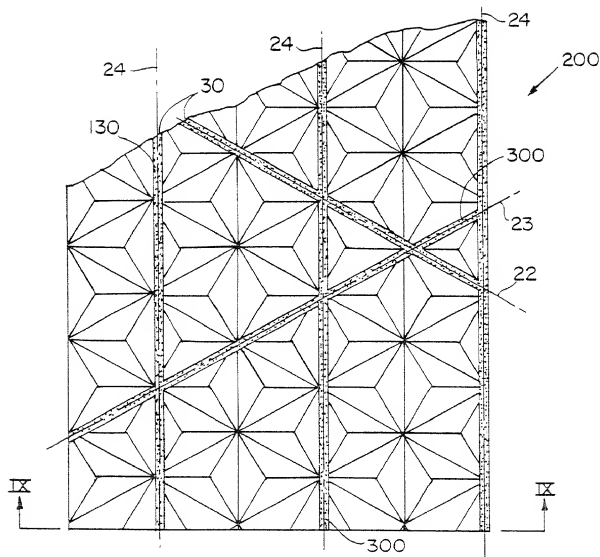


FIG. 8

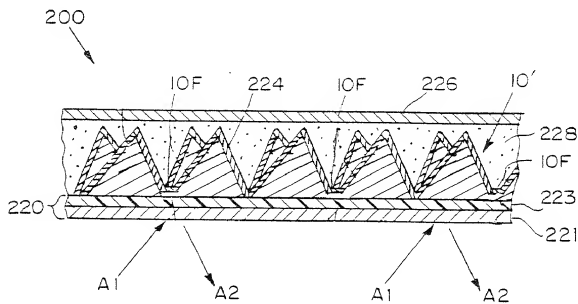


FIG. 9

0000199-070001

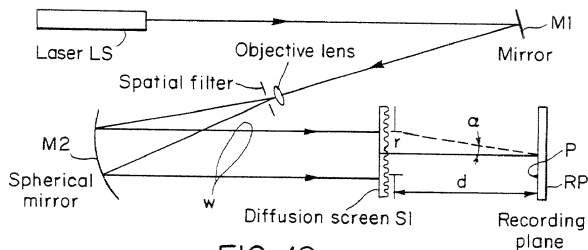


FIG. 10

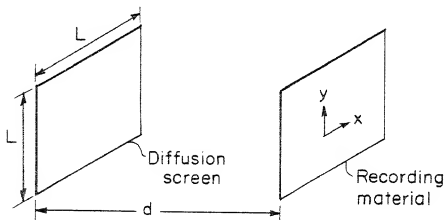


FIG. 12

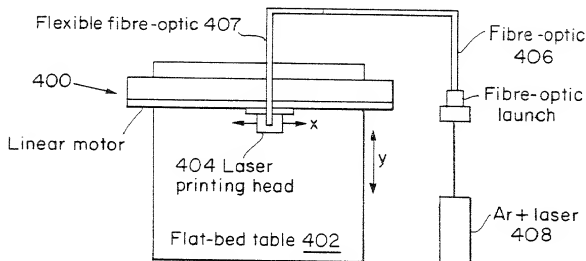
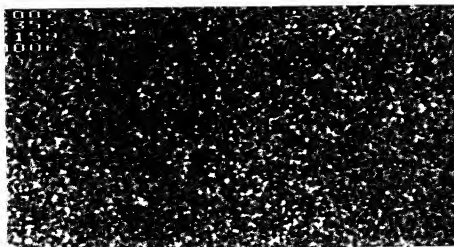


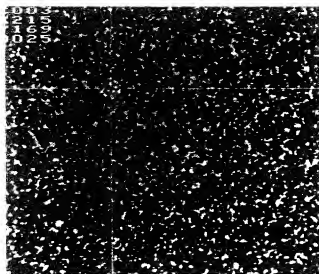
FIG. 13

09904199.070901



200 $\mu$ m

FIG. 11



480mJ/cm<sup>2</sup>

FIG. 19A



497mJ/cm<sup>2</sup>

FIG. 19B

09901199.070901

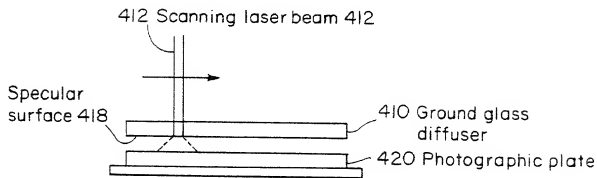


FIG. 14

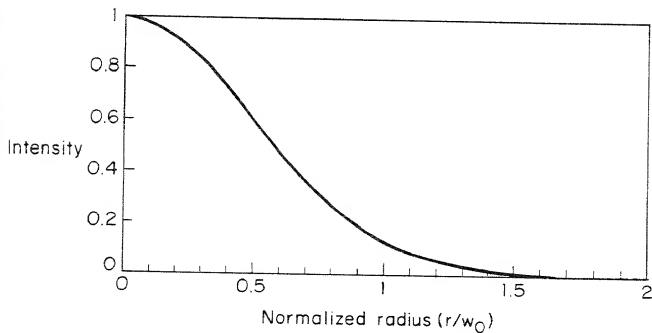


FIG. 15

09901199.070901

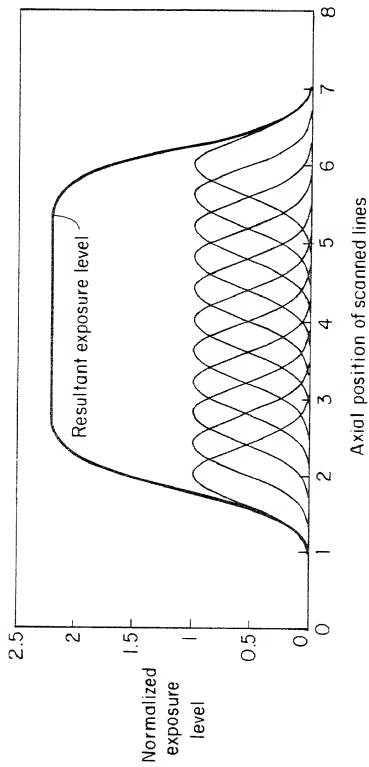


FIG. 16



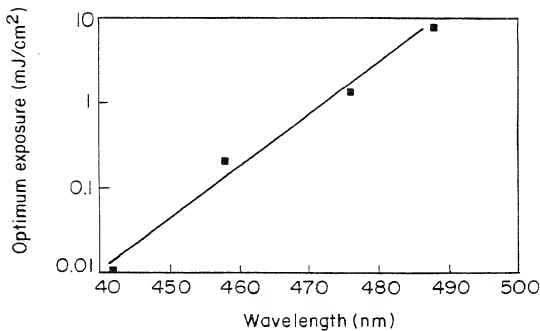


FIG. 17

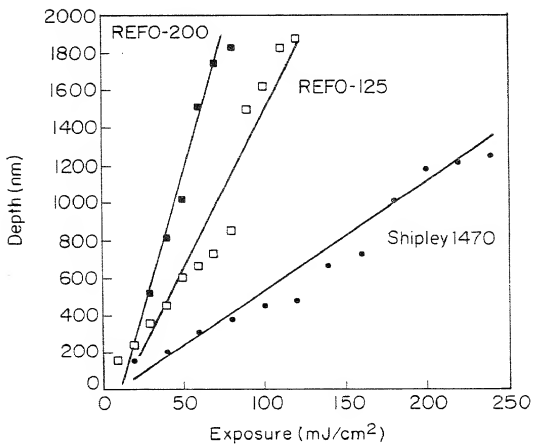
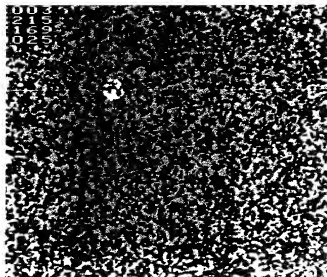


FIG. 18



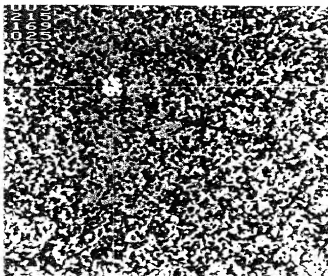
514 mJ/cm<sup>2</sup>

FIG. 19C



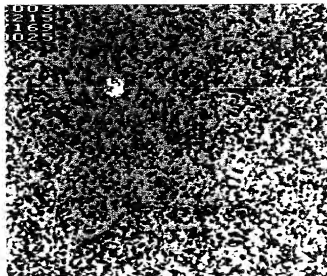
533 mJ/cm<sup>2</sup>

FIG. 19D



554 mJ/cm<sup>2</sup>

FIG. 19E



576 mJ/cm<sup>2</sup>

FIG. 19F

09901199.070001